example

test

December 4, 2017

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:
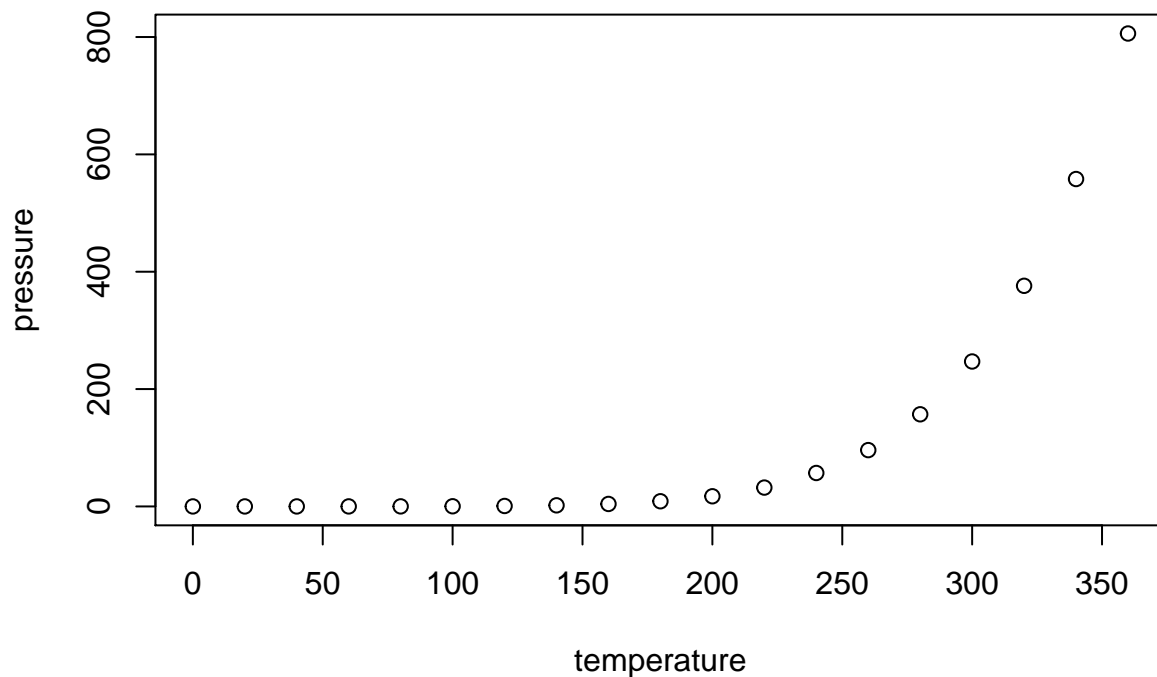
Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

```r
x1 <- rnorm(100)
x1
```

```
##   [1] -0.05742547  0.18885291 -0.55952627  0.74303341  1.82073733
##   [6]  1.70641249  0.38189044 -1.59973610 -0.99687487  0.20312743
##  [11] -1.12636440 -0.03893054 -2.00456523  0.23820328  1.74466716
##  [16]  0.71427626  0.09630529 -1.28221805 -0.16599641 -0.10580947
##  [21]  0.29870477 -2.17859168 -1.33594160 -1.25485003 -0.53820544
##  [26] -0.27564771 -0.92460672 -2.01493696 -1.09076903 -0.35596165
##  [31]  1.27769669  0.54627112 -0.08405403  0.61372660  3.07738076
##  [36]  1.31027581  1.67301231  1.42272463  1.09254341  1.02846613
##  [41]  0.67901195 -0.55113942 -1.55285023 -0.38586158  1.47675163
##  [46]  1.43930076  0.29268453 -0.57153765  0.35494092  0.33990291
##  [51] -0.32676026  0.15244811  0.29584299 -1.59700103 -2.35826681
##  [56] -0.23599661  1.24384954  0.22678821 -0.00434745  0.38858619
##  [61] -0.24648402  1.10274156 -0.27642747 -0.89814627 -0.85711789
##  [66]  0.78247153  0.36276808  0.61051804  0.51862881  1.08700515
##  [71] -0.46114950 -2.39212971 -0.14613232  0.22028855  0.22872532
##  [76] -1.01176310 -0.48150627  1.37926305  1.08804991  0.84892364
##  [81] -0.12265978 -1.70172287 -0.08176608 -1.49668083 -2.36678583
##  [86]  0.98905791  0.97917194  1.12549585  1.88596359  0.12792173
##  [91] -0.18446303 -0.54211857 -2.01549971  1.43920461 -0.53141422
##  [96] -1.15287065  0.40743647  0.45008547  0.70585700  1.26386531
```

$$S_t = \mu dt + \sigma dW_t$$

$$S_t = \mu dt + \sigma dW_t \tag{1}$$

- test 1

- test 2

Section 1

Subsection 2